

A MOVING MAGNET VOICE COIL MOTOR USING HALBACH ARRAYS

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Abstract of the Disclosure

An information handling system includes a base, a disc rotatably attached to the base, and an actuator assembly movably attached to the base the actuator assembly. An actuator assembly has an opening at the pivot therein. An actuator arm attached to the main body, and a voice coil motor is positioned within the opening of the actuator assembly. The voice coil motor also includes at least two magnets attached to the main body of the actuator arm. The magnets are arranged as a Halbach array. The voice coil motor is positioned within the opening of the actuator assembly, and near one end of the actuator assembly and at least one load spring and transducer are positioned at the other end of the actuator assembly.

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